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#10

RAW SEQUENCE LISTING   DATE: 08/13/2001
PATENT APPLICATION: US/09/529,962   TIME: 09:51:12

Input Set : A:\06501-058001.TXT
Output Set: N:\CRF3\08132001\I529962.raw

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ENTERED

ENTER

```
 4 <110> APPLICANT: Ota, Toshio
 5        Nishikawa, Tetsuo
 6        Salamov, Asaf
 7        Isogai, Takao
 9 <120> TITLE OF INVENTION: METHOD FOR SCREENING FULL-LENGTH cDNA
10        CLONES
12 <130> FILE REFERENCE: 06501-058001
14 <140> CURRENT APPLICATION NUMBER: 09/529,962
15 <141> CURRENT FILING DATE: 2000-12-18
17 <150> PRIOR APPLICATION NUMBER: JP 9/289982
18 <151> PRIOR FILING DATE: 1997-10-22
20 <150> PRIOR APPLICATION NUMBER: PCT/JP98/04772
21 <151> PRIOR FILING DATE: 1998-10-21
23 <160> NUMBER OF SEQ ID NOS: 18
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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28 <211> LENGTH: 30
29 <212> TYPE: RNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Oligo-capping linker sequence
35 <400> SEQUENCE: 1
36 agcaucgagu cggccuuguu ggccuacugg                              30
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 42
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Oligo(dT) adapter primer sequence
46 <400> SEQUENCE: 2
47 gcggctgaag acggcctatg tggccttttt tttttttttt tt                42
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50 <211> LENGTH: 32
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Random adapter primer sequence
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58 <222> LOCATION: (1)...(32)
59 <223> OTHER INFORMATION: n = A,T,C or G
61 <400> SEQUENCE: 3
62 gcggctgaag acggcctatg tggccnnnnn nc                           32
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 880
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
69 <220> FEATURE:
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C--> (line 15)
W--> (line 62)

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     75 atgcgcccgc gcggccctat aggcgcctcc tccgcccgcc gcccgggagc cgcagccgcc    60
     76 gccgccactg ccactcccgc tctctcagcg ccgccgtcgc caccgccacc gccactgcca   120
     77 ctaccaccgt ctgagtctgc agtcccgaga tcccagccat catgtccata gagaagatct   180
     78 gggcccggga gatcctggac tcccgcggga accccacagt ggaggtggat ctctatactg   240
     79 ccaaaggtcc tttccgggct gcagtgccca gtggagcctc tacgggcatc tatgaggccc   300
     80 tggagctgag ggatggagac aaacagcgtt acttaggcaa aggtgtcctg aaggcagtgg   360
     81 accacatcaa ctccaccatc gcgccagccc tcatcagctc aggtctctct gtggtggagc   420
     82 aagagaaact ggacaacctg atgctggagt tggatgggac tgagaacaaa tccaagtttg   480
W--> 83 gggccaatcc atcctgggtg tgtctctggc cgtgtgtaag gcagggcaa ctgaacngga   540
W--> 84 actgcccctg tatcgccaca ttgctcagct tggncgggaa ctcanacctc atcctgcctg   600
W--> 85 ttgccggcct tcaacgtgat caatggttgg cttctcatgc ctggcaacaa anctggccat   660
W--> 86 tgcnggaatt ttcatgatcc tccccnttgg gaaactgaaa aactttccgg aatgcccntc   720
W--> 87 caactaagtt gcaaaaggtc taccnatacc ccccaagggg aattcctcca agggaacaaa   780
W--> 88 tncccgggaa aggaatgccc cccaattntt nggggaata aaaggtgggc tttgcccccc   840
W--> 89 cattttcctg gaaaaaacna tnaaaaccct tgggaaactt                         880
     91 <210> SEQ ID NO: 5
     92 <211> LENGTH: (645)
     93 <212> TYPE: DNA
     94 <213> ORGANISM: Homo sapiens
     96 <220> FEATURE:
     97 <221> NAME/KEY: misc_feature
     98 <222> LOCATION: (1)...(645)
     99 <223> OTHER INFORMATION: n = A,T,C or G
    101 <400> SEQUENCE: 5
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    103 ctcctgtcgc cttcgcctcc taatccctag ccactatgcg tgagtgcatc tccatccacg   120
W--> 104 ttggccaggc tggtgtccan attggcaatg cctgctggga gctctactgc ctggaacacg   180
    105 gcatccagcc cgatggccag atgccaagtg acaagaccat tgggggagga gatgactcct   240
W--> 106 tcaacacctt cttcagtgag acgggcgctg gcaancacgt gccccgggct gtgtttgtag   300
    107 acttggaacc cacagtcatt gatgaagttc gcactggcac ctaccgccag ctcttccacc   360
W--> 108 ctgagcagct catcncaggc aaggaagatg ctgccaataa ctatgcccga gggcactaca   420
W--> 109 ccattggcaa ggagatcatt gaccttgtgt tggaccgaat tcgcaagctg gctgaccant   480
W--> 110 gcaccggtct tcanggcttc ttggttttcc acagctttgg tgggggaact ggttctgggt   540
    111 tcacctccct gctcatggaa cgtctctcag ttgattatgg caagaaatcc aagctggagt   600
W--> 112 tctccatta cccagcaccc cnggtttccn cngctgtant tngaa                    645
    114 <210> SEQ ID NO: 6
    115 <211> LENGTH: (820)
    116 <212> TYPE: DNA
    117 <213> ORGANISM: Homo sapiens
    119 <220> FEATURE:
    120 <221> NAME/KEY: misc_feature
    121 <222> LOCATION: (1)...(820)
    122 <223> OTHER INFORMATION: n = A,T,C or G
    124 <400> SEQUENCE: 6
    125 cttttttcgc aacgggtttg ccgccagaac acaggtgtcg tgaaaactac ccctaaaagc    60
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      126 caaaatggga aaggaaaaga ctcatatcaa cattgtcgtc attggacacg tagattcggg    120
      127 caagtccacc actactggcc atctgatcta taaatgcggt ggcatcgaca aaagaaccat    180
      128 tgaaaaattt gagaaggagg ctgctgagat gggaaagggc tccttcaagt atgcctgggt    240
      129 cttggataaa ctgaaagctg agcgtgaacg tggtatcacc attgatatct ccttgtggaa    300
      130 atttgagacc agcaagtact atgtgactat cattgatgcc ccaggacaca gagactttat    360
      131 caaaaacatg attacaggga catctcaggc tgactgtgct gtcctgattg ttgctgctgg    420
      132 tgttggtgaa tttgaagctg gtatctccaa gaatgggcag acccgagagc atgcccttct    480
W--> 133 ggcttacaca ctgggtgtga aacaactaat tgtcggtgtt aacaaaatgg attcactgan    540
W--> 134 ccaccctaca gccagaagaa atatgangaa attgttaagg aagtcagcac ttacattaag    600
W--> 135 aaaattggct acaaccccga cacagtanca tttgtgccaa tttctggttg gaatggtgac    660
W--> 136 aacatgctgg aaccaantgc taacatgcct tggttccagg gatggaaaat cccccnttaa    720
W--> 137 ggatggcnat gccattggaa cccccctgct tgaaggctct ggantgcatc ctancaccaa    780
W--> 138 ctccttcaaa ttgaaaaacc ccttgcnccc gcctccncca    820
      140 <210> SEQ ID NO: 7
      141 <211> LENGTH: 788
      142 <212> TYPE: DNA
      143 <213> ORGANISM: Homo sapiens
      145 <220> FEATURE:
      146 <221> NAME/KEY: misc_feature
      147 <222> LOCATION: (1)...(788)
      148 <223> OTHER INFORMATION: n = A,T,C or G OK
      150 <400> SEQUENCE: 7
      151 gaggctgagg cagtggctcc ttgcacagca gctgcacgcg ccgtggctcc ggatctcttc     60
      152 gtctttgcag cgtagcccga gtcggtcagc gccggaggac ctcagcagcc atgtcgaagc    120
      153 cccatagtga agccgggact gccttcattc agacccagca gctgcacgca gccatggctg    180
      154 acacattcct ggagcacatg tgccgcctgg acattgattc accacccatc acagcccgga    240
      155 acactggcat catctgtacc attggcccag cttcccgatc agtggagacg ttgaaggaga    300
      156 tgattaagtc tggaatgaat gtggctcgtc tgaacttctc tcatggaact catgagtacc    360
      157 atgcggagac catcaagaat gtgcgcacag ccacggaaag ctttgcttct gaccccatcc    420
      158 tctaccggcc cgttgctgtg gctctagaca ctaaaggacc tgagatccga actgggctca    480
      159 tcaagggcag cggcactgca gaggtggagc tgaagaatgg agccactctc aaaatcacgc    540
      160 tggataatgc ctacatggaa aagtgtgacg agaacatcct gtggctggac tacaagaaca    600
W--> 161 tctgcaaggt ggtggaagtg ggcaacaaga tctacgtgga tgatgggctn atttctctcc    660
W--> 162 aggtgaacac aaaggtgccg acttcctggg tgacngagvt ggaaaatggt ggctccttgg    720
W--> 163 gcncaagaaa ggtgtgaact tcctggggct gctgtggant tgcctgctgt gtcngaaaaa    780
      164 gacatcca    788
      166 <210> SEQ ID NO: 8
      167 <211> LENGTH: 608
      168 <212> TYPE: DNA
      169 <213> ORGANISM: Homo sapiens
      171 <220> FEATURE:
      172 <221> NAME/KEY: misc_feature
      173 <222> LOCATION: (1)...(608)
      174 <223> OTHER INFORMATION: n = A,T,C or G OK
      176 <400> SEQUENCE: 8
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W--> 178 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat    120
      179 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag    180
W--> 180 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa    240
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W--> 181 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca    300
W--> 182 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag    360
W--> 183 agagcaggag attcggatgg gtcngatggc tatgggaggt gctatgggca taaacnacag    420
     184 atgtgccatg ccccctgctc ctgtgccagc tggtacccca gctcctccag gacctgccac    480
W--> 185 tattatgccg gatggaactt tgggattgac cccaccnaca actgaacgct ttggtcnggc    540
W--> 186 tgctacnatg gaangaattg gggcaattgg tggaactcct cctgcattcn accgtgcagc    600
     187 tcctggga                                                              608
     189 <210> SEQ ID NO: 9
     190 <211> LENGTH: 608
     191 <212> TYPE: DNA
     192 <213> ORGANISM: Homo sapiens
     194 <220> FEATURE:
     195 <221> NAME/KEY: misc_feature
     196 <222> LOCATION: (1)...(608)
     197 <223> OTHER INFORMATION: n = A,T,C or G
     199 <400> SEQUENCE: 9
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W--> 201 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat    120
     202 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag    180
W--> 203 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa    240
W--> 204 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca    300
W--> 205 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag    360
W--> 206 agagcaggag attcggatgg gtcngatggc tatgggaggt gctatgggca taaacnacag    420
     207 atgtgccatg ccccctgctc ctgtgccagc tggtacccca gctcctccag gacctgccac    480
W--> 208 tattatgccg gatggaactt tgggattgac cccaccnaca actgaacgct ttggtcnggc    540
W--> 209 tgctacnatg gaangaattg gggcaattgg tggaactcct cctgcattcn accgtgcagc    600
     210 tcctggga                                                              608
     212 <210> SEQ ID NO: 10
     213 <211> LENGTH: 813
     214 <212> TYPE: DNA
     215 <213> ORGANISM: Homo sapiens
     217 <220> FEATURE:
     218 <221> NAME/KEY: misc_feature
     219 <222> LOCATION: (1)...(813)
     220 <223> OTHER INFORMATION: n = A,T,C or G
     222 <400> SEQUENCE: 10
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     224 gcaacttgga aaaagaaacc acacatcgat attgtgccaa tgccttcaaa cttcacaggt    120
     225 tgcctatccc tcgtccaggt gaagttttgg gattagttgg aactaatggt attggaaagt    180
     226 caactgcttt aaaaatttta gcaggaaaac aaaagccaaa ccttggaaag tacgatgatc    240
     227 ctcctgactg gcaggagatt ttgacttatt ccgtggatc tgaattacaa aattacttta    300
     228 caaagattct agaagatgac ctaaaagcca tcatcaaacc tcaatatgta gaccagattc    360
     229 ctaaggctgc aaagggggaca gtgggatcta ttttggaccg aaaagatgaa acaaagacac    420
     230 aggcaattgt atgtcagcag cttgatttaa cccacctaaa agaacgaaat gttgaagatc    480
     231 tttcaggagg agagttgcag agatttgctt gtgctgtcgt ttgcatacag aaagctgata    540
     232 ttttcatgtt tgatgagcct tctagttacc tagatgtcaa gcagcgttta aaggctgcta    600
     233 ttactatacg atctctaata aatccagata gatatatcat tgtggtggaa catgatctaa    660
     234 gtgtattaga ctatctctcc gacttcatct gctgtttata tggtgtacca agcgcctatg    720
W--> 235 gaattgtcac tatgcctttt agtgttagaa aaggcataaa cnttttttgg atgggtatgt    780
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     244 <221> NAME/KEY: misc_feature
     245 <222> LOCATION: (1)...(655)
     246 <223> OTHER INFORMATION: n = A,T,C or G  OK
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     250 actcaccgcc ctcgccgccg caccatggac gcccccaggc aggtggtcaa ctttgggcct   120
     251 ggtcccgcca agctgccgca ctcagtgttg ttagagatac aaaaggaatt attagactac   180
     252 aaaggagttg gcattagtgt tcttgaaatg agtcacaggt catcagattt tgccaagatt   240
     253 attaacaata cagagaatct tgtgcgggaa ttgctagctg ttccagacaa ctataaggtg   300
     254 attttttctgc aaggaggtgg gtgcggccag ttcagtgctg tccccttaaa cctcattggc   360
     255 ttgaaagcag gaaggtgtgc ggactatgtg gtgacaggag cttggtcagc taaggccgca   420
     256 gaagaagcca agaagtttgg gactataaat atcgttcacc ctaaacttgg gagttataca   480
W--> 257 aaaattccag atccaagcac ctggaacctc aacccanatg cctcctacgt gttttattgc   540
W--> 258 ncaaatgaaa cggtgcatgg tgttganttt gactttatac ccnatgtcaa gggaacanta   600
W--> 259 ctggtttgtg acattttcct ccaacttcct gtccaancca attgnatgtt tccaa         655
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     262 <211> LENGTH: 599
     263 <212> TYPE: DNA
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     268 <222> LOCATION: (1)...(599)
     269 <223> OTHER INFORMATION: n = A,T,C or G    OK
     271 <400> SEQUENCE: 12
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     273 gcgacgcggc tgagggcttc tcgtcggggt cggggctgca gccgtcatgc cggggatagt   120
     274 ggagctgccc actctagagg agctgaaagt agatgaggtg aaaattagtt ctgctgtgct   180
     275 taaagctgcg gcccatcact atggagctca atgtgataag cccaacaagg aatttatgct   240
W--> 276 ctgccgctgg gaanagaaag atccgaggcg gtgcttagag gaaggcaaac tggtcaacaa   300
     277 gtgtgctttg gacttctttta ggcagataaa acgtcactgt gcagagcctt ttacagaata   360
     278 ttggacttgc attgattata ctggccagca gttatttcgt cactgtcgca aacagcaggc   420
W--> 279 aaagtttgac nagtgtgtgc tggacaaact gggctgggtg cggcctgacc tgggaaaact   480
W--> 280 gtcaaaggtc accaaagtga aaacagatcn acctttaccg ganaatccct atcactcaag   540
W--> 281 aacaagaacg gatcccagcc ctganatcna aggaaatctg cancctgcca cacatggca    599
     283 <210> SEQ ID NO: 13
     284 <211> LENGTH: 597
     285 <212> TYPE: DNA
     286 <213> ORGANISM: Homo sapiens
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     289 <221> NAME/KEY: misc_feature
     290 <222> LOCATION: (1)...(597)
     291 <223> OTHER INFORMATION: n = A,T,C or G    OK
     293 <400> SEQUENCE: 13
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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
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L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
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L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
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